

Title (en)
LIQUID-JET PRINTER DEVICE.

Title (de)
FLÜSSIGKEITSSTRAHLDRUCKGERÄT.

Title (fr)
DISPOSITIF IMPRIMEUR A JET DE LIQUIDE.

Publication
EP 0505417 B1 19931201 (EN)

Application
EP 91900778 A 19901211

Priority
SE 8904182 A 19891212

Abstract (en)
[origin: WO9108903A1] Liquid jet printer device for recording information on an information carrier in the form of characters or symbols. A print head (1) forms a part of the device and a plurality of liquid channels are arranged therein to discharge a series of liquid jets or liquid droplets according to a predetermined pattern during predetermined printing periods. The liquid channels in the print head present outlet openings for the discharge of print liquid under pressure, and valve means included therein, switchable for opening and closing respectively the liquid channels. Inlet ends connect the liquid channels to a supply conduit (3) for delivery of print liquid via a pump (4) under pressure from a liquid container (2). The device maintains an operating pressure in the supply conduit (3) only during those printing periods during which printing takes place. Pressure relief occurs during idle periods between printing periods to atmospheric pressure or sub-atmospheric pressure. During the idle periods, a small return flow of print liquid occurs so that the outlet openings are substantially emptied of print liquid.

IPC 1-7
B41J 2/17

IPC 8 full level
B41J 2/175 (2006.01); **B41J 2/17** (2006.01); **F16K 31/06** (2006.01)

CPC (source: EP US)
B41J 2/17 (2013.01 - EP US)

Designated contracting state (EPC)
DE FR GB IT NL SE

DOCDB simple family (publication)
WO 9108903 A1 19910627; DE 69004969 D1 19940113; DE 69004969 T2 19940505; EP 0505417 A1 19920930; EP 0505417 B1 19931201; JP H05504308 A 19930708; SE 465158 B 19910805; SE 8904182 D0 19891212; SE 8904182 L 19910613; US 5446486 A 19950829

DOCDB simple family (application)
EP 9002125 W 19901211; DE 69004969 T 19901211; EP 91900778 A 19901211; JP 50122390 A 19901211; SE 8904182 A 19891212; US 85374292 A 19920605